



## ABSTRACT

A method and an arrangement maintain end-to-end synchronization on a telecommunications connection transmitting data in frames substantially in real time and using synchronized end-to-end encryption, wherein at least a part of the telecommunications connection is a packet-switched connection(PDN), in which case the reproduction delay of the data to be transmitted can be increased by adding one or more extra frames (72) to the frame string (75) being transmitted, wherein the arrangement ~~comprises means (MS, TE) for defining on the basis of~~ defines, based on the number of received frames, an initialization vector value corresponding to a frame received at the receiving end of the telecommunications connection and used in decrypting the frame, ~~and means (GW, TE) for adjusting~~ adjusts the reproduction delay ~~that are arranged~~ to mark the frame to be added to increase the reproduction delay as an extra frame, and ~~the means (MS, TE) for defining~~ defines the initialization vector value ~~are arranged~~ to count only the frames not marked as extra frames in the number of received frames.

(Figure 1)